Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2063 Reclamation District No. 2063 Crows Landing	Overall LMA Rating M *	A Total LMA Miles * Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					,	
Rated Item		Maintena	nce Deficiancy		Enforc	ement	Design & System Obsolescence	
Rated item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.14		0.14	1.32%				
Trim / Thin Trees	0.01		0.01	0.09%				
Encroachments					0.02	0.46		
Animal Control	0.02		0.02	0.19%				
Erosion / Bank Caving	0.05	0.01	0.09	0.85%				
Flood Preparedness & Training	0.11		0.11	1.04%				
LMA Totals:	0.33	0.01	0.37	3.48% *	0.02	0.46	0.00	0.00

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2063 Crows Landing

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)					
* Overall LMA Rating (Fall Only)			M						
	** Non-receipt of Su	ımmer or Winter Insp	ection Reports may effec	ct overall annual rating					
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall. FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.									
comments									

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	10.63

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/14/2013 - 05/14/2013		11/07/2013 - 11/07/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

LMR No.	Levee		Category	Item	Rating ** + Location *	Action/Comment	GPS Latitude/Longitude Issue No.
1	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	LS A Ma		Start End Photo
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	LS A Ma		0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	LS M Ma		0 0 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4	0.00	10.58	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W Ma	C3 : Add appropriate gravel or road base. Grade and compact.	37.478842 ° 37.390455 ° 27 -121.044627 ° -120.941945 °
5	0.02	0.51	Earthen Levee	Vegetation		V2 : Remove the wild growth other than native grasses from the levee slopes.	37.478550 ° 37.471548 ° 3 -121.044603 ° -121.044553 ° Y DWR ID: DWR_RD2063_01_s_2012_3
6	0.02	0.51	Earthen Levee	Vegetation		V2 : Remove the wild growth other than native grasses from the levee slopes.	37.478548 ° 37.471545 ° 2 -121.044605 ° -121.044553 ° DWR ID: DWR_RD2063_01_s _ 2012_2
7	0.03	0.49	Earthen Levee	Encroachments	LS U En	DT : Ditch Inspector Comments: Ditch on landside has encroached into the berm and toe of the levee.	37.478470 ° 37.471848 ° 18 -121.044598 ° -121.044635 ° Y
8	0.14	0.22	Earthen Levee	Encroachments	LS A/W	PR : Prunings	DWR ID: DWR_RD2063_01_s _ 2012_18 37.476855 ° 37.475658 ° 16 -121.044622 ° -121.044603 ° Y DWR_ID: DWR_RD2063_01_s _ 2012_16
9	1.41	1.41	Earthen Levee	Animal Control	WSA/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.463582 ° 37.463582 ° 36 -121.032263 ° -121.032263 ° DWR ID: DWR_RD2063_01_s _ 2013_36
10	1.47	1.50	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.462723 ° 37.462303 ° 8 -121.032020 ° -121.031928 ° DWR ID: DWR_RD2063_01_s _ 2012_8
11	1.54	1.54	Earthen Levee	Slope Stability	LS A/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.461762 ° 37.461762 ° 10 -121.031822 ° -121.031822 ° Y DWR.ID: DWR_RD2063_01_s _ 2012_10
12	1.57	1.57	Earthen Levee	Animal Control		A1 : Exterminate rodents and backfill and compact or grout burrows.	37.461322 ° 37.461322 ° 4 -121.031785 ° -121.031785 ° DWR_ID: DWR_RD2063_01_s _ 2012_4
13	1.69	1.69	Earthen Levee	Animal Control	LS A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.459813 ° 37.459813 ° 11 -121.032372 ° -121.032372 ° Y DWR ID: DWR_RD2063_01_s_2012_11
14	1.95	1.95	Earthen Levee	Encroachments	LS A/W Ma	GA : Garbage Inspector Comments: Garbage at landside toe and berm.	37.456460 ° 37.456460 ° 117 -121.033730 ° -121.033730 ° Y DWR ID: DWR_RD2063_01_s_2012_117

* Location LS : Land Side WS : Water Side CR : Crown A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Mainter

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

LMR No.	Levee	Mile End	Category	Item	Rating ** + Location	Action/Comment	GPS Latitude/Longitude Issue No. Start End Photo
15	2.32	2.52	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.451895 ° 37.449892 ° 1 -121.030492 ° -121.028072 ° DWR_ID: DWR_RD2063_01_s _ 2012_1
16	2.53	2.56	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe.	37.449787 ° 37.449432 ° 13 -121.027943 ° -121.027472 ° Y
17	2.72	2.79	Earthen Levee	Animal Control	LS A/W Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.447512 ° 37.446574 ° 982 -121.026050 ° -121.025643 ° DWR ID: DWR_RD2063_01_s _ 2012_982
18	2.78	2.84	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe.	37.446722 ° 37.445925 ° 14 -121.025640 ° -121.025528 ° DWR_ID: DWR_RD2063_01_s_2012_14
19	3.06	3.06	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E2: Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several erosion sites located along waterside slope and toe approx. 100' plus feet long, 18-24 inches vertical cuts. Erosion site was repaired by district.	37.442816 ° 37.442816 ° 30 -121.025421 ° -121.025421 ° Y
20	3.07	3.26	Supplemental	DWR Erosion Survey	WS C	Inspector Comments: 08/30/2013: Site has been further enhanced by adding more broken concrete blocks to the river bank. The berm has been widened to approximately 50 feet along the site. 07/24/2012: Learned from the district that the upstream erosion has been repaired by placing broken concrete blocks. Visual inspection at the repaired site found no new erosion development. No significant change observed on the site at the downstream section of the repaired erosion site. 10/14/2011. This site was reported on Jan. 18. 2011. The first 100' of erosion appears to be a pervious cut with fresh activity. At station 2+00 the district president indicated that 60 - 80' of material eroded. The remainder berm width is at least 32 ft from the levee toe. As the levee is not at risk at this time, the site is not rated, but needs to be closely monitored for possible erosion failure during the upcoming flooding season. [2013 Site ID:RD2063U01RM103.49]	37.442305 ° 37.442305 ° 19 -121.022727 ° -121.022727 °
21	3.20	3.20	Earthen Levee	Animal Control	WS M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.442400 ° 37.442400 ° 37 -121.023095 ° -121.023095 ° DWR_ID: DWR_RD2063_01_s_ 2013_37
22	3.41	3.70	Earthen Levee	Vegetation		V2 : Remove the wild growth other than native grasses from the levee slopes.	37.440438 ° 37.436906 ° 38 -121.020487 ° -121.017835 ° DWR.ID: DWR_RD2063_01_f _2012_38
23	3.77	3.82	Earthen Levee	Animal Control	LS A/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.436197 ° 37.435732 ° 29 -121.016937 ° -121.016090 ° Y DWR_ID: DWR_RD2063_01_s_2012_29

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

LMR No.	Levee	Mile End	Category	Item	Rating ** + Location *	Action/Comment	GPS Latitude/Longitude Issue No. Start End Photo
24	3.96	4.10	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.434403 ° 37.432653 ° 17 -121.014298 ° -121.013327 ° Y DWR ID: DWR_RD2063_01_s _ 2012_17
25	4.67	4.67	Earthen Levee	Encroachments	LS M En	PI : Pipe	37.429620 ° 37.429620 ° 6 -121.005434 ° -121.005434 ° DWR ID: DWR_RD2063_01_f_2013_6
26	4.68	4.68	Earthen Levee	Encroachments	WS M En	CR : Crops Inspector Comments: Landowner planted grape vines and fruit trees and water tank on waterside berm without a permit from the CVFPB.	37.429638 ° 37.429638 ° 31 -121.005348 ° -121.005348 ° Y
27	4.71	4.71	Earthen Levee	Trim / Thin Trees	LS M	T1 : Trim trees to at least five feet above ground level.	DWR ID: DWR_RD2063_01_s _ 2012_31 37.429892 ° 37.429892 ° 20 -121.004768 ° -121.004768 ° DWR ID: DWR_RD2063_01_s _ 2012_20
28	5.05	5.11	Earthen Levee	Encroachments	LS A/W Ma	DT : Ditch Inspector Comments: Farmer removed irrigation ditch from landward toe.	37.428202 ° 37.427518 ° 119 -120.999518 ° -120.999362 ° Y
29	5.16	5.16	Earthen Levee	Encroachments	WS C	MA : Material Inspector Comments: Concrete rubble with rebar	37.426887 ° 37.426887 ° 40 -120.999368 ° -120.999368 ° DWR ID: DWR_RD2063_01_s _ 2013_40
30	5.48	5.48	Earthen Levee	Erosion / Bank Caving	LS U Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion due to irrigation system at landward toe.	37.422827 ° 37.422827 ° 32 -121.001788 ° -121.001788 ° Y
							DWR ID: DWR_RD2063_01_s _ 2012_32
31	6.05	6.63	Earthen Levee	Vegetation		V2 : Remove the wild growth other than native grasses from the levee slopes.	37.416235 ° 37.411285 ° 22 -120.997563 ° -120.998188 ° DWR ID: DWR_RD2063_01_s _ 2012_22
32	6.09	6.09	Earthen Levee	Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.415887 ° 37.415887 ° 5 -120.998083 ° -120.998083 ° DWR ID: DWR_RD2063_01_s_2012_5
33	6.15	6.36	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.415488 ° 37.413473 ° 120 -120.998988 ° -121.001680 ° Y DWR ID: DWR_RD2063_01_s_2012_120
34	6.78	6.81	Earthen Levee	Animal Control	WSA/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.411877 ° 37.411725 ° 41 -120.995685 ° -120.995092 ° DWR ID: DWR_RD2063_01_s_2013_41
35	6.89	6.89	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.411785 ° 37.411785 ° 39 -120.993548 ° -120.993548 ° DWR ID: DWR_RD2063_01_s_2012_39
36	7.69	7.69	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.403516 ° 37.403516 ° 7 -120.985718 ° -120.985718 ° DWR ID: DWR_RD2063_01_s_2012_7
37	7.81	7.90	Earthen Levee	Vegetation		V2 : Remove the wild growth other than native grasses from the levee slopes.	37.402400 ° 37.401563 ° 23 -120.984087 ° -120.982775 ° DWR ID: DWR_RD2063_01_s_2012_23

* Location LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable N : M : Minimally Acceptable C : U : Unacceptable A/W :

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

LMR	Levee	Mile	Category	Item	Location / Comment * Tatiin Action/Comment		GPS Latitud	le/Longitude	Issue No.
No.	Start	End	Category	item	ng + tion	Action/Comment	Start	End	Photo
38	7.88	7.88	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.401774 ° -120.983132 ° DWR ID: DWR_R	37.401774 ° -120.983132 ° D2063_01_s _ 2012	
39	8.06	8.23	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.400930 ° -120.980157 ° DWR ID: DWR_R	37.401148 ° -120.977320 ° D2063_01_s _ 2012	
40	8.17	8.17	Earthen Levee	Trim / Thin Trees	LS A/W En	T1 : Trim trees to at least five feet above ground level.	37.401222 ° -120.978317 ° DWR ID: DWR_R	37.401222 ° -120.978317 ° _{D2063_01_s_2012}	
41	8.54	8.54	Earthen Levee	Encroachments	LS A/W En	CR : Crops Inspector Comments: Farmer did move hay stack outside the fifteen foot right-of-way.	37.398673 ° -120.972922 ° DWR ID: DWR_R	37.398673 ° -120.972922 ° D2063_01_s _ 2012	Υ
42	9.05	9.05	Earthen Levee	Animal Control	WSA/W Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.392405 ° -120.968492 ° DWR ID: DWR_R	37.392405 ° -120.968492 ° D2063_01_s _ 2013	25 _25
43	10.56	10.61	Earthen Levee	Erosion / Bank Caving	WS M	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Repair erosion on waterward shoulder. Erosion cause by farm equipment.	37.390503 ° -120.942368 ° DWR ID: DWR_R	37.390483 ° -120.941480 ° D2063_01_s _ 2013	

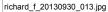
Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	5	
Start Levee Mile	0.02	
End Levee Mile	0.51	
Location	Water Side	
Category	Earthen Levee	
Item	Vegetation	
Looking south at typical view of waterside and landside slopes.		
richard_f_20131108_157.JPG		

Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at ditch on	landside herm and toe



Tichara_1_20130330_013.jpg		
Levee Mile Report Line	7	
Start Levee Mile	0.03	
End Levee Mile	0.49	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking south at canal-ditch at landside berm and toe.		
richard_f_20130930_014.jpg		







Location LS: Land Side WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	7	
Start Levee Mile	0.03	
End Levee Mile	0.49	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking northeast at canal-ditch on landside berm.		

richard_f_20130930_015.jpg

Levee Mile Report Line	8
Start Levee Mile	0.14
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at prunings stacked on landside too	

Looking north at prunings stacked on landside toe and berm.

richard_f_20130930_011.jpg

Levee Mile Report Line	11
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking east at landside slope damage (six to	

eight inch erosion) by vehicle.

richard_f_20130930_006.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	11	
Start Levee Mile	1.54	
End Levee Mile	1.54	
Location	Land Side	
Category	Earthen Levee	
Item	Slope Stability	
Looking west at landside slope damage cause by vehicle traffic.		

richard_f_20130930_007.jpg

Levee Mile Report Line	13
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking east at squirrel holes on landside slope.

richard_f_20130930_008.jpg

Levee Mile Report Line	14
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at garbage at landside toe.	







Location LS: Land Side WS : Water Side CR : Crown

richard_f_20130930_023.jpg

Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	16	
Start Levee Mile	2.53	
End Levee Mile	2.56	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking south at dense vegetation on landside toe. (Before 2012)		

richard_f_20130930_009.jpg

Levee Mile Report Line	16	
Start Levee Mile	2.53	
End Levee Mile	2.56	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking south at vegetation removed from		

Looking south at vegetation removed from landward toe. (After 2013)

richard_f_20131108_158.JPG

Levee Mile Report Line	16
Start Levee Mile	2.53
End Levee Mile	2.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at removed vegetation from landward toe. (After fall 2013)	







* Location

LS: Land Side

WS: Water Side

CR: Crown

richard_f_20131108_159.JPG

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	19
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southwest at river erosion at waterside slope and toe.	



richard_f_20130930_017.jpg

Levee Mile Report Line	19	
Start Levee Mile	3.06	
End Levee Mile	3.06	
Location	Water Side	
Category	Earthen Levee	
Item	Erosion / Bank Caving	
Looking northwest at river erosion at waterside		

Looking northwest at river erosion at waterside slope and toe.



richard_f_20130930_018.jpg

Levee Mile Report Line	19
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southwest at repaired erosion site on	

waterward slope and toe.

richard_f_20130930_019.JPG



* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	3.77
End Levee Mile	3.82
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking at typical view of a squirrel hole on landside shoulder.	

richard_f_20130930_016.jpg

Levee Mile Report Line	24	
Start Levee Mile	3.96	
End Levee Mile	4.10	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
l a librar a continua de la decensión de la continua de la continu		

Looking southeast at dense vegetation along landside toe. (Before Fall 2012)

richard_f_20130930_012.jpg

Levee Mile Report Line	24	
Start Levee Mile	3.96	
End Levee Mile	4.10	
Location	Land Side	
Category	Earthen Levee	
Item	Vegetation	
Looking south at removed vegetation from landward toe. (After fall 2013)		

richard_f_20131108_160.JPG







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	26	
Start Levee Mile	4.68	
End Levee Mile	4.68	
Location	Water Side	
Category	Earthen Levee	
Item Encroachments		
Looking south at grapevines and fruit trees on waterside berm.		

richard_f_20130930_020.jpg

Levee Mile Report Line	26
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at water tank on waterward berm.

richard_f_20130930_021.JPG

Levee Mile Report Line	28
Start Levee Mile	5.05
End Levee Mile	5.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at irrig	ation ditch at landside

toe.

richard_f_20130930_024.jpg







Location LS: Land Side WS : Water Side CR : Crown

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monit : Corrected : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	28	
Start Levee Mile	5.05	
End Levee Mile	5.11	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking northwest at irrigation ditch removed from landward toe.		

richard_f_20130930_025.JPG

Levee Mile Report Line	30
Start Levee Mile	5.48
End Levee Mile	5.48
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at irrigation system at landward toe.

richard_f_20131108_161.JPG

Levee Mile Report Line	30
Start Levee Mile	5.48
End Levee Mile	5.48
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking south at several landward toe.	erosion sites at







richard_f_20131108_162.JPG

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monite : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	30		
Start Levee Mile	5.48		
End Levee Mile	5.48		
Location	Land Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
Looking west at erosion and irrigation system at landward toe.			
· ·	and irrigation system at		

Levee Mile Report Line	33
Start Levee Mile	6.15
End Levee Mile	6.36
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landston and the statement	

Looking south at dense vegetation on landside toe.

richard_f_20130930_026.jpg

Levee Mile Report Line	41	
Start Levee Mile	8.54	
End Levee Mile	8.54	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Looking south at hay stacked near landside toe.		







Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	11/07/2013 11/07/2013	Richard Willoughby

Levee Mile Report Line	41		
Start Levee Mile	8.54		
End Levee Mile	8.54		
Location	Land Side		
Category	Earthen Levee		
Item	Encroachments		
Looking northwest at hay pile still within easement.			
richard_f_20130930_028.JPG			

Levee Mile Report Line	41
Start Levee Mile	8.54
End Levee Mile	8.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at hay stack outside the fifteen foot right-of-way. (Fall 2013)

richard_f_20131108_164.JPG

Levee Mile Report Line	43		
Start Levee Mile	10.56		
End Levee Mile	10.61		
Location	Water Side		
Category	Earthen Levee		
Item	Erosion / Bank Caving		
Looking north at erosion on waterward shoulder.			

richard_f_20130930_022.JPG







* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type